ELSEVIER

Forest Ecology and Management 79 (1995) 277–278

Forest Ecology and Management

Contents of *Forest Ecology and Management*, Volume 79

VOL. 79, NOS. 1–2 NOVEMBER 1995

Special Issue: Kielder – The ecology of a man-made spruce forest

Preface vii

Introduction

The history and multi-purpose management of Kielder Forest
R. McIntosh (Hexham, UK) 1

Forest and plant ecology

Silvicultural possibilities for increasing structural diversity in British spruce forests: the case of Kielder Forest
W.L. Mason and C.P. Quine (Roslin, UK) 13

Effects of afforestation on upland plant communities and implications for vegetation management
H.L. Wallace (Rhiwlas, UK) and J.E.G. Good (Bangor, UK) 29

The Border Mires in Kielder Forest: A review of their ecology and conservation management
R.S. Smith, A.G. Lunn and M.D. Newson (Newcastle upon Tyne, UK) 47

Animal ecology

Carabid beetle communities as indicators of conservation potential in upland forests
J. Butterfield (Durham, UK), M.L. Luff (Newcastle upon Tyne, UK), M. Baines (Durham, UK) and M.D. Eyre (Newcastle upon Tyne, UK) 63

The ecology of squirrels in spruce dominated plantations: implications for forest management
P.W.W. Lurz, P.J. Garson and S.P. Rushton (Newcastle upon Tyne, UK) 79

Diet selection by roe deer *Capreolus capreolus* in Kielder Forest in relation to plant cover
C.B. de Jong (Wageningen, Netherlands), R.M.A. Gill (Wrecclesham, UK), S.E. van Wieren (Wageningen, Netherlands) and F.W.E. Burlton (Bellingham, UK) 91

Monitoring the density of a roe deer *Capreolus capreolus* population subjected to heavy hunting pressure
R. McIntosh, F.W.E. Burlton and G. McReddie (Bellingham, UK) 99

Bird populations in upland spruce plantations in northern Britain
I.J. Patterson, J.G. Ollason and P. Doyle (Newburgh, UK) 107

Numbers, breeding performance, and diet of the sparrowhawk *Accipiter nisus* and merlin *Falco columbarius* in relation to cone crops and seed-eating finches
S.J. Petty (Dunoon, UK), I.J. Patterson (Newburgh, UK), D.I.K. Anderson (Dunoon, UK), B. Little (Blaydon, UK) and M. Davison (Stocksfield, UK) 133

Merlins *Falco columbarius* in Kielder Forest: influences of habitat on breeding performance
B. Little (Blaydon, UK), M. Davison (Stocksfield, UK) and D. Jardine (Pickering, UK) 147

Overview

The potential for biodiversity in British upland spruce forests
P.R. Ratcliffe (Edinburgh, UK) and G.F. Peterken (Lydney, UK) 153

Elsevier Science B.V.

VOL. 79, NO. 3 **DECEMBER 1995**

Provenance and progeny variation in growth and frost tolerance of *Casuarina cunninghamiana* in California, USA
M.L. Merwin, J.A. Martin (Davis, CA, USA) and R.D. Westfall (Berkeley, CA, USA). 161
Growth of *Eucalyptus marginata* (Jarrah) seedlings in mediterranean-climate forest in south-west Australia in response to overstorey, site and fertiliser application
G.L. Stoneman, B. Dell (Murdoch, WA, USA) and N.C. Turner (P.O. Wembley, WA, Australia) 173
The relationship between crown condition and soil solution chemistry in oak and Sitka spruce in England and Wales
P.H. Freer-Smith (Farnham, UK) and D.B. Read (Reading, UK). 185
The effects of ozone on the root dynamics of seedlings and mature red oak (*Quercus rubra* L.)
D.L. Kelting, J.A. Burger (Blacksburg, VA, USA) and G.S. Edwards (Norris, TN, USA) 197
Profitability of rehabilitation of overlogged dipterocarp forest: a case study from South Kalimantan, Indonesia
H. Korpelainen, G. Ådjers, J. Kuusipalo, K. Nuryanto and A. Otsamo (Banjarbaru, Kal-Sel, Indonesia). 207
Effect of nitrogen input on carbon accumulation of boreal forest soils and ground vegetation
R. Mäkipää (Vantaa, Finland) 217
Nest predation rates in managed and reserved extensive northern hardwood forests
R.M. DeGraaf (Amherst, MA, USA) 227

Short Communication
Mating system analysis in a natural population of *Acacia nilotica* subspecies *kraussiana*
A.K. Mandal (Jabalpur, India) and R.A. Ennos (Edinburgh, UK) 235

Book Review
Creative conservation 241

Reading List of Recent Books 243

Acknowledgement to Referees, 1995 245

Cumulative Author Index, Vols. 71–79 247

Cumulative Subject Index, Vols. 71–79 255